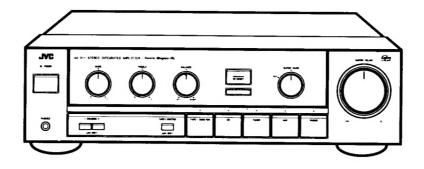
JVC

SERVICE MANUAL

STEREO INTEGRATED AMPLIFIER

MODEL No. AX-311BK



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Safety Precautions

- The design of this product contains special hardware and many circuits and components specially for safety purpose.
 For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by () on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

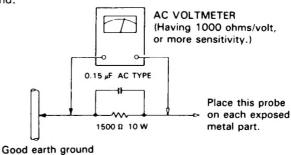
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current
 from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the
 chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- · Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If m ains voltage selector is provided, check setting for local voltage.

Specifications

AX-311BK OVERALL CHARACTERISTICS

Output power:

80 watts per channel into 4 ohms at 1 kHz

60 watts per channel into 8 ohms at 1 kHz

55 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007% total harmonic dis-

55 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.003% total harmonic distortion. (measured by JVC Audio Analyzer System)

Total harmonic distortion

: 0.007% (20 Hz — 20 kHz, 8 ohms) at

Intermodulation

55 watts : 0.007% (60 Hz : 7 kHz = 4 : 1, 8 ohms) at

distortion

55 watts

Power band width

: 5 Hz — 50 kHz (IHF,

0.05%, 8 ohms both channels driven)

Frequency response: 5 Hz -- 80 kHz +0, -3 dB (8 ohms) : 90 (1 kHz, 8 ohms)

Damping factor

Input terminals

Input sensitivity/ impedance (1 kHz) PHONO

CD/AUX/

2.5 mV/47 kohms 200 mV/43 kohms

TUNER/TAPE 1, 2 Signal-to-noise ratio

CD/AUX/

74 dB ('66 IHF) : 104 dB ('66 IHF)

TUNER/TAPE 1, 2

PHONO (REC OUT) : 80 dB ('78 IHF) : 76 dB ('78 IHF)

CD/AUX/ TUNER/TAPE 1, 2

(SP OUT)

PHONO 67 dB (DIN) CD/AUX/ 68 dB (DIN)

TUNER/TAPE 1, 2

Tone controls

: TREBLE: +8 ±1 dB

 $-8 \pm 1 \, dB$ (at 10 kHz) +8 ±1 dB

BASS: $-8 \pm 1 dB$ (at 100 Hz)

SUPER BASS

: +6 dB (at 50 Hz)

(Volume control at -30 dB position)

EQUALIZER

PHONO overload capacity PHONO RIAA

95 mV (0.02% THD)

deviation

±0.5 dB (20 Hz --20 kHz)

Recording output Output level/

impedance TAPE REC-1, 2

200 mV/Maximum

2 kohms

GENERAL

Weight

Dimensions

: 435 (W) x 127 (H) x 310 (D) mm

(17-3/16'' x 4-15/16'' x 12-1/16'')

: 7.2 kg (15.9 lbs.)

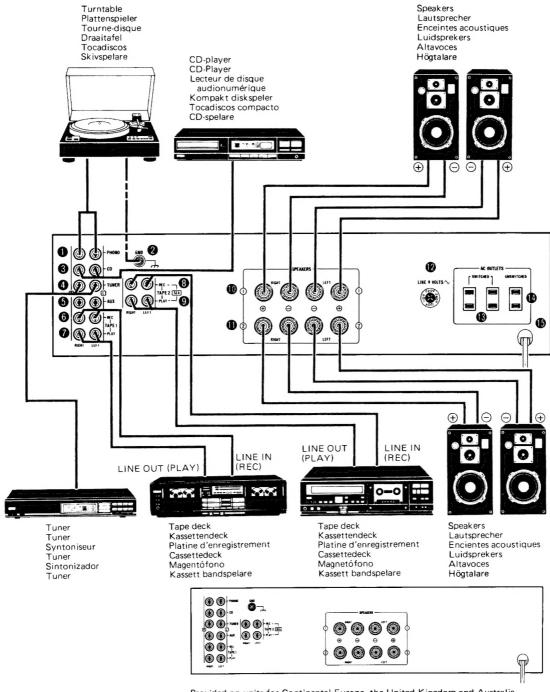
Design and specifications subject to change

without notice.

POWER SPECIFICATIONS

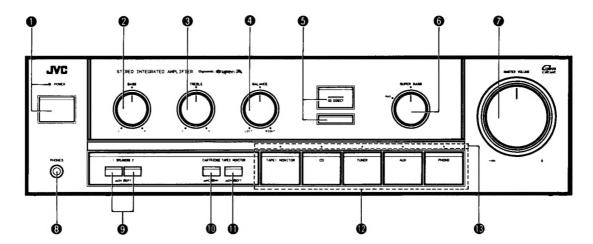
Areas	Line veltage & fragment	Power consumption		
Areas	Line voltage & frequency	AX-311BK	AX-411BK	
Continental Europe	AC 220 V∿, 50 Hz	220 watts	240 watts	
U.K.	10.040.11	540		
Australia	— AC 240 V∿, 50 Hz	510 watts	590 watts	
Other areas	AC 110/120/220/240 V	220 watts	240 watts	

CONECTION DIAGRAM ANSCHLUSSDIAGRAMM SCHEMA DE RACCORDEMENTS AANSLUITINGSSCHEMA DIAGRAMA DE CONEXIONES ANSLUTNINGSSCHEMA



Provided on units for Continental Europe, the United Kingdom and Australia. Vorhanden an Geräten für Kontinentaleuropa, Großbritannien und Australien. Fourni sur les appareils pour l'Europe Continentale, le Royaume-Uni et l'Australie. Aanwezig op apparaten voor het Europese Vasteland, Groot-Brittannië en Australië. Se provee en las unidades para Europa Continental, el Reino Unido y Australia. För kontinentala Europa, Storbritannien och Australien.

FRONT PANEL



POWER and indicator

Press this button to turn the power on. To turn the power off, press it again. The indicator lights when the POWER button is pressed to on.

Notes:

- When power is not supplied to this amplifier for 2 3 days, the source select button pressed before the power was switched off may be lost when the power is switched on again. If this happens, set the buttons, etc. again.
- An electronic source selector is used in this unit. When the POWER button is first switched on, two or more sources or no source may be selected. Make sure to input the source select data by pressing one of the source selectors.
- If the POWER button is pressed repeatedly to switch on and off too quickly, the same phenomenon as the above will occur.

@ BASS

Turn clockwise to boost bass response and counterclockwise to decrease it.

1 TREBLE

Turn clockwise to boost treble response and counterclockwise to decrease it.

BALANCE

Balances the volume between the left and right speakers. Usually set it to the center click position

6 CD DIRECT and indicator

Press this button to enjoy listening to the CD with good sound quality. The indicator lights and the signal fed from the CD terminals is directly connected to the volume, bypassing the circuits on the way, thus allowing you to enjoy listening to an improved sound quality.

Note

 While the CD DIRECT button is pressed, the reproduced sound does not change even if the source selector (including TAPE 2 MONITOR) and BALANCE volume are operated, press the CD DIRECT button again to turn the indicator off when using these.

6 SUPER BASS

When sound volume is turned down, the human ear tends to become less aware of bass sound. At low sound levels the SUPER BASS knob can be used to emphasize the bass sound. For ordinary use, the knob should be set to the normal position.

MASTER VOLUME

Controls the volume of the speakers and headphones.

PHONES (Headphones jack)

Plug stereo headphones into this jack for private listening.

If you want to listen to sound from the headphone only, press the SPEAKERS buttons to "OFF".

9 SPEAKERS

Press to switch the speakers connected to the SPEAKERS 1 or 2 terminals on (___) and off (___).

CARTRIDGE (AX-411BK only)

MC (___): Press in when using an MC cartridge having an output of less than 0.5 mV.

MM (___): Press again when using an MM or MC cartridge having an output of more than 0.5 mV.

TAPE 2 MONITOR

ON (_): Set to this position to listen to the tape deck connected to the TAPE 2 terminals of this unit. If your tape deck is of the 3-head type, you can monitor the recorded sound while recording by setting this button to ON.

OFF (_): Keep this button set to this position, except when you want to listen to the tape deck connected to the TAPE 2 terminals of this unit.

Source selector

TAPE 1 MONITOR

Press to listen to a tape deck connected to the TAPE 1 terminals.

CD

Press to listen to the source connected to the CD terminals.

TUNER

Press to listen to radio broadcasts by a tuner connected to the TUNER terminals.

AUX Press t

Press to listen to the source connected to the AUX terminals.

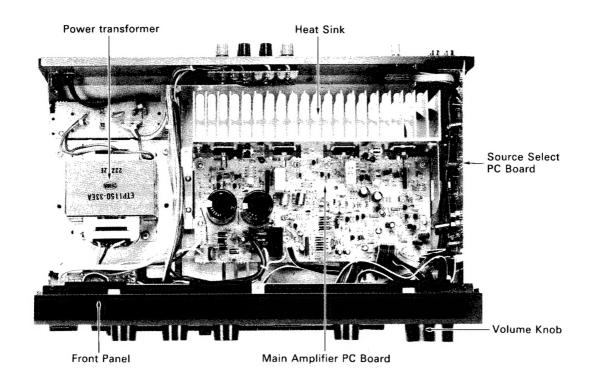
PHONO

Press to listen to records played by a turntable connected to the PHONO terminals.

Source indicator

The indicator corresponding to the source select button pressed lights.

Removal Procedures



■ Removing the Top Cover

- 1. Remove six screws.
- 2. Remove the top cover by lifting up its rear section and pulling it backward while holding it on incline.

■ Removing the Front Panel

- 1. Remove the top cover.
- 2. Pull out the volume knob.
- 3. Remove three plastic rivets on the upper part of the front panel and three screws from the lower part.

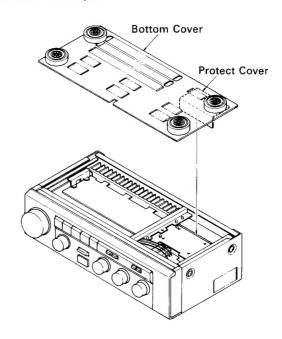
Removing the Bottom Cover

1. Remove 17 screws fixing the bottom cover.

Note: When installing the bottom cover, properly insert the protect cover between the power transformer and the power primary PC board as shown in the figure at right.

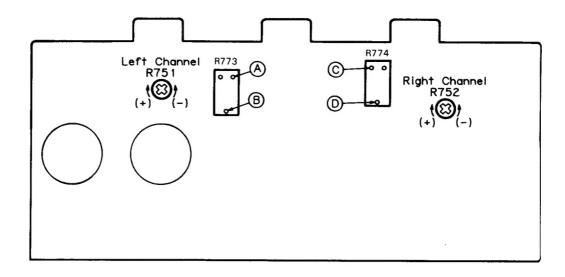
Removing the Power Transistors

- 1. Remove the top cover.
- 2. Remove the bottom cover.
- 3. Remove the retaining screw from the defective power transistor and replace it.



Adjustment Procedures

■ Power Amplifier Idling Adjustment

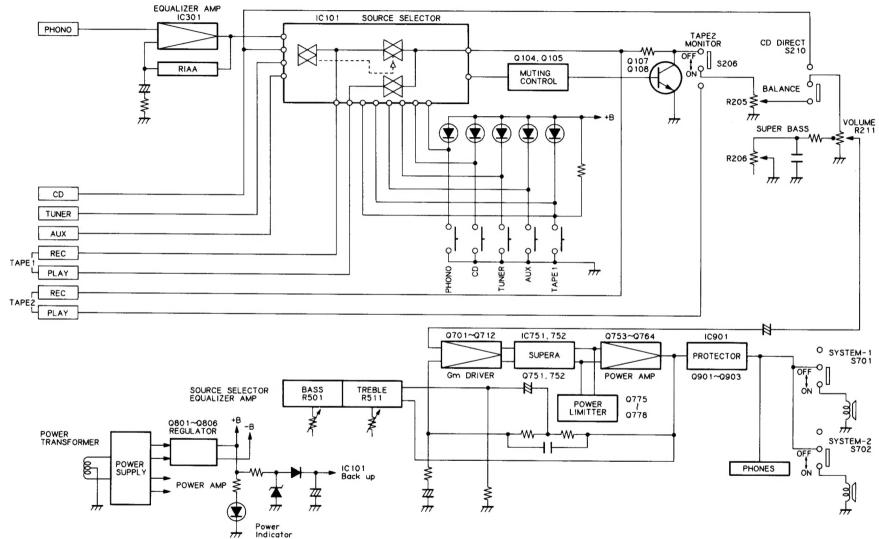


- Before turning on the power, turn the the semi-fixed resistors (R751 for L channel and R752 for R channel) of the power amplifier circuit board fully counterclockwise.
- 2. Adjust the semi-fiexed resistor (R751 and R752) so that the voltage at the following test points of the power amplifier circuit board is within a range of 3 \sim 5 mV after the power is turned on.
 - L channel: Measure the voltage between test point (a) (emitter of Q761) and output at the test point (a).
 - R channel: Meaure the voltage between test point © (emitter of Q762) and output at the test point ©.
- 3. Readjust resistors R751 and R752 about 10 minutes after the power is turned on (the heatsink temperature must be sufficiently high) so that the voltage at the test points becomes 11 mV.

Confirm that the voltage does not vary when the heatsink temperature increases further.

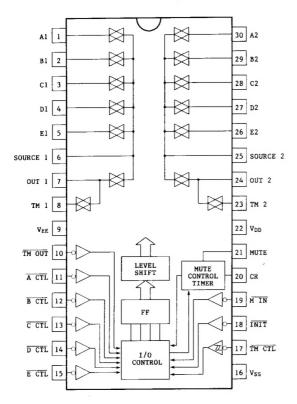
Note: Be sure to perform the measurement with the probes and cabinet of the measuring equipment separated from the grounding terminals of AX-311BK or other measuring equipment.

Block Diagram

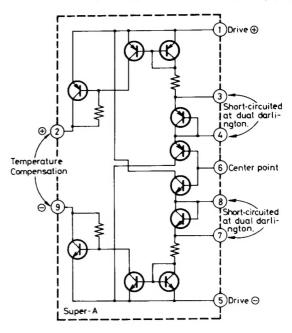


Internal Block Diagrams of ICs

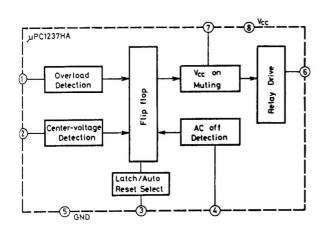
LC7818 (IC101): Analog Switch



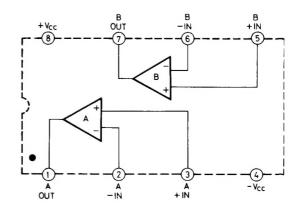
■ VC5022 [X, Y] (IC751, IC752): Super-A



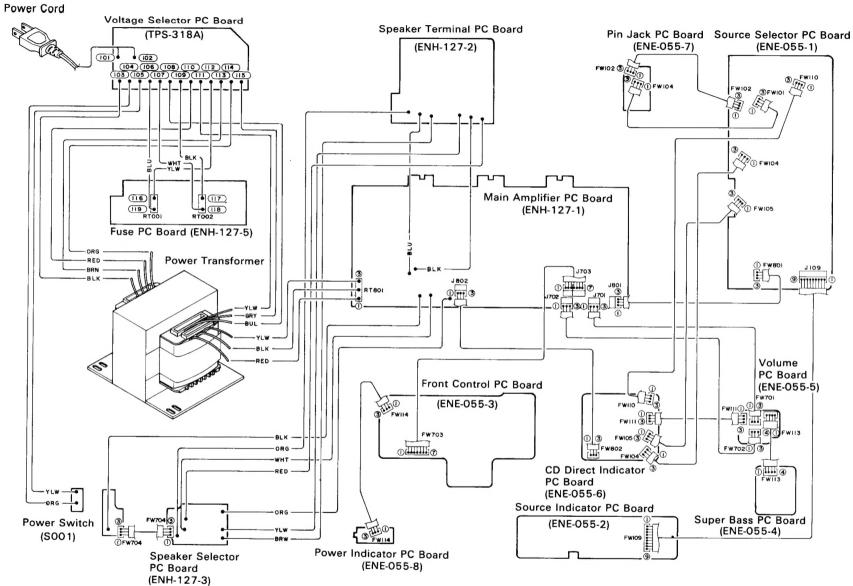
■ μPC1237HA (IC901): Relay Driver



■ NJM4558D-D (IC301): Dual OP Amp.



Connection Diagram



- MEMO -



VICTOR COMPANY OF JAPAN LIMITED AUDIO PRODUCTS DIVISION, YAMATO PLANT, 1644, SHIMOTSURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN

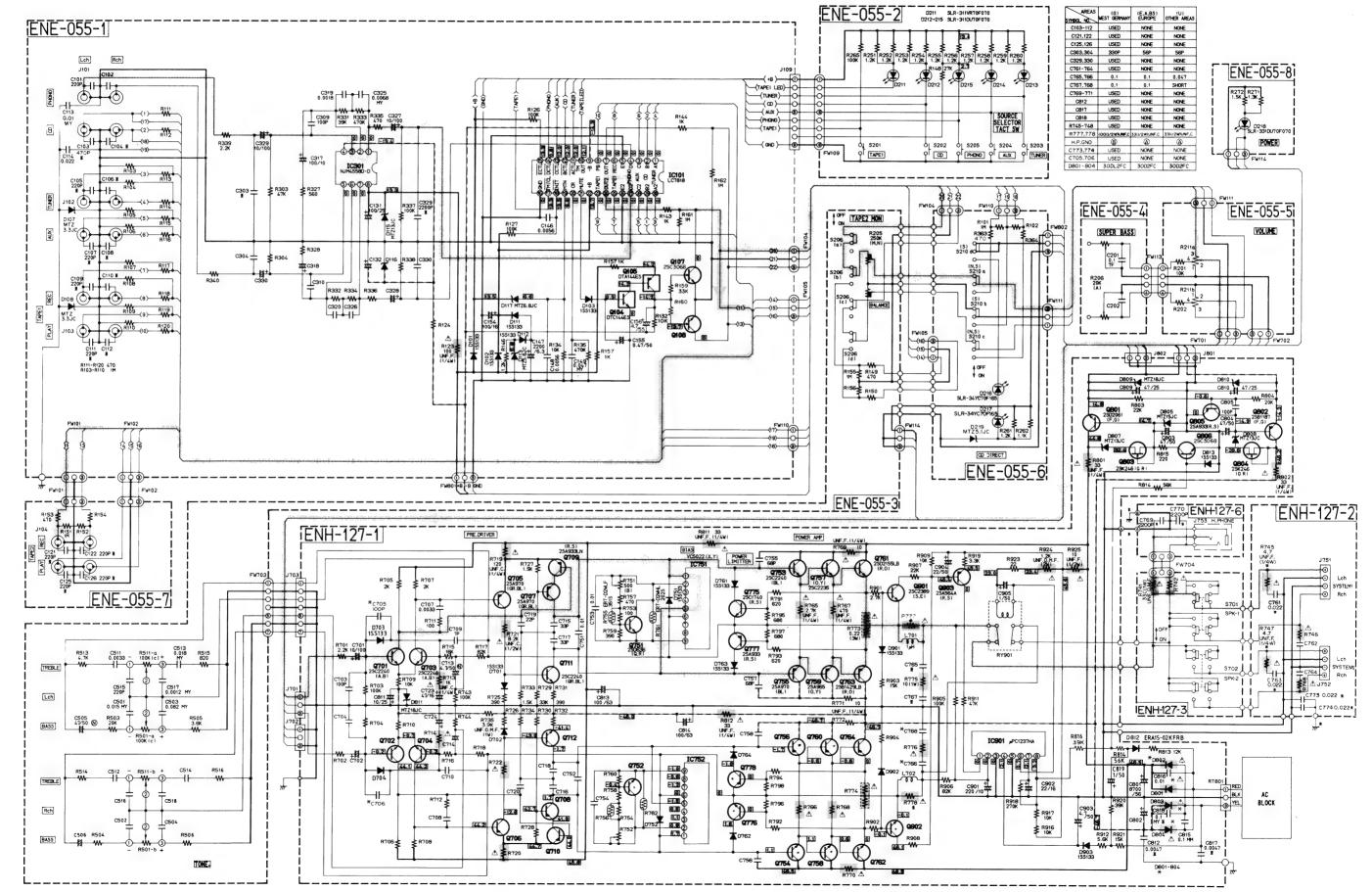


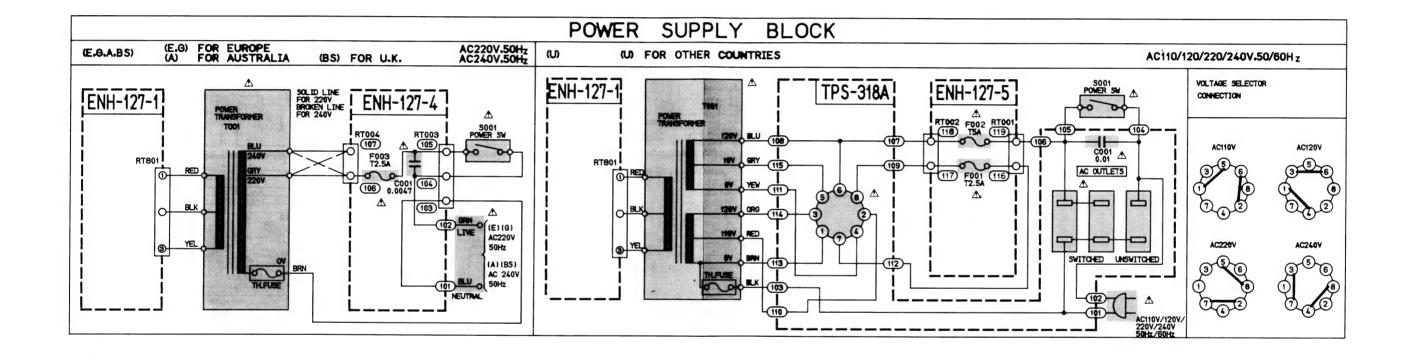
Schematic Diagrams

(1) Source Select and Main Amplifier Section

lotes:

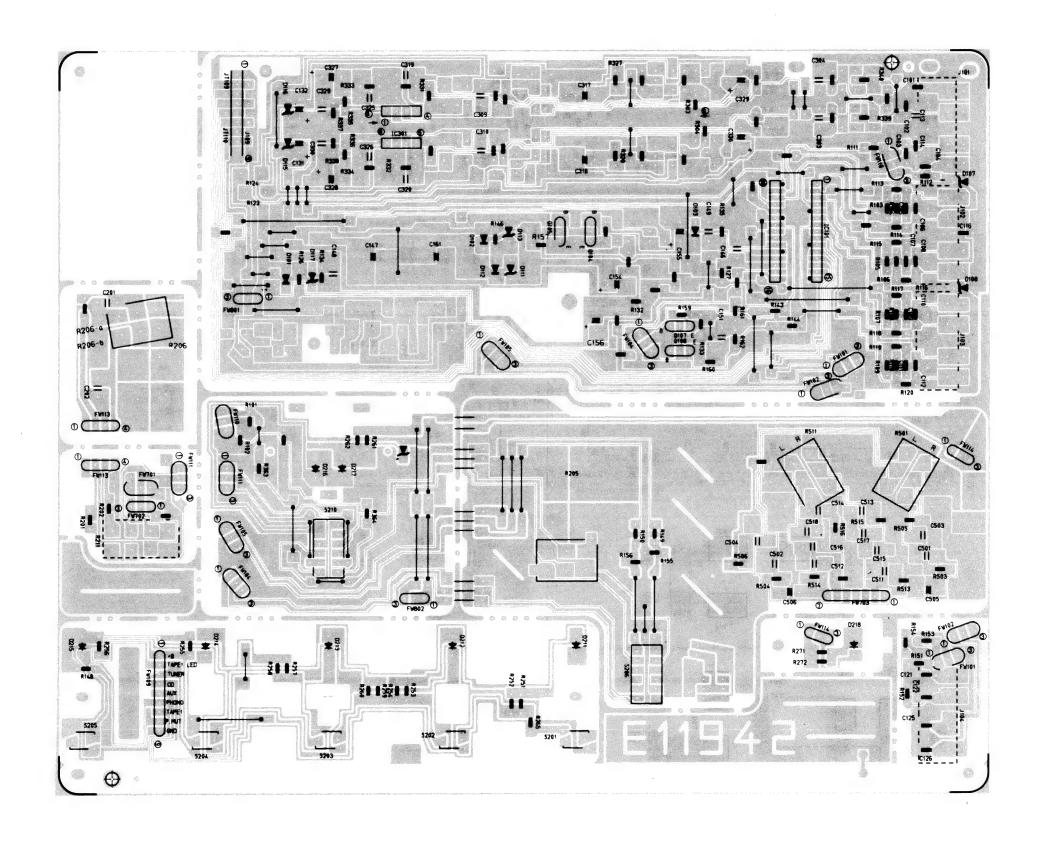
- 1. ——— indicates + B power supply.
 2. ----- indicates B power supply.
- indicates signal path.
- 4. shows DC voltage to the chassis with no signal input
- 5. When replacing the parts in the darkened are () and those marked with Δ , be sure to use the designated parts to ensure safety.
- This is the standard circuit diagram.
 The design and contents are subject to change without notice.

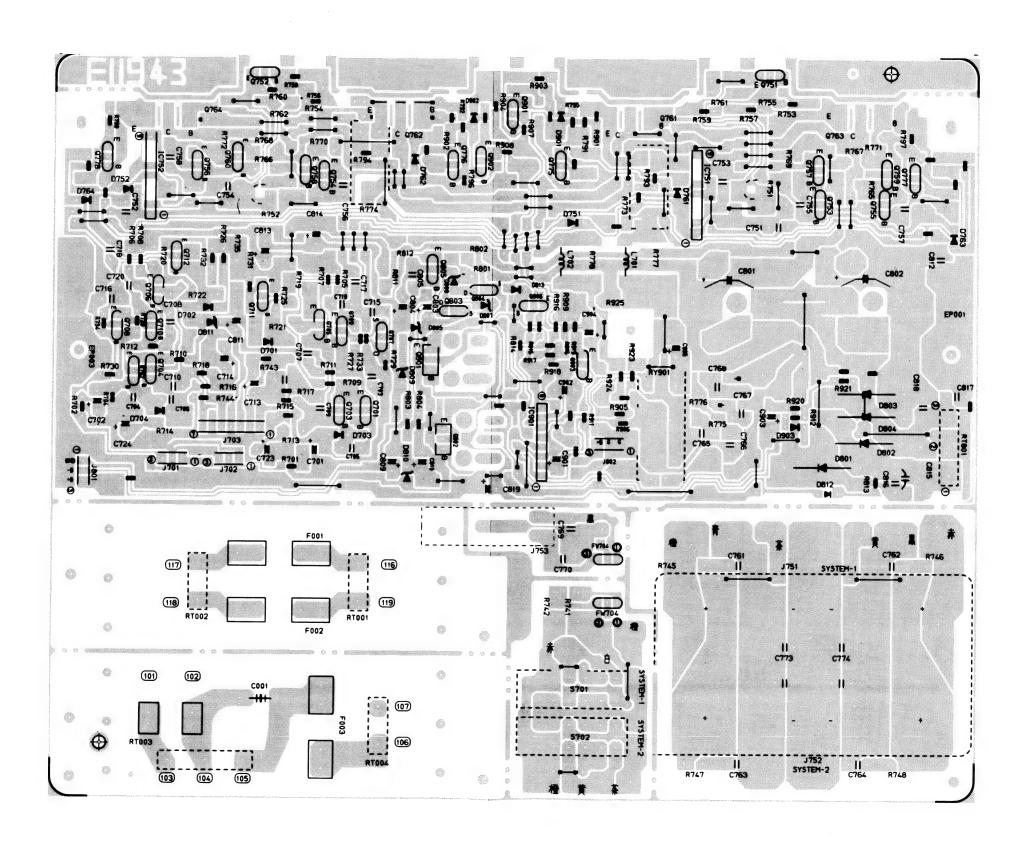




Printed Circuit Boards

■ Source Select PC Board (ENE-055)



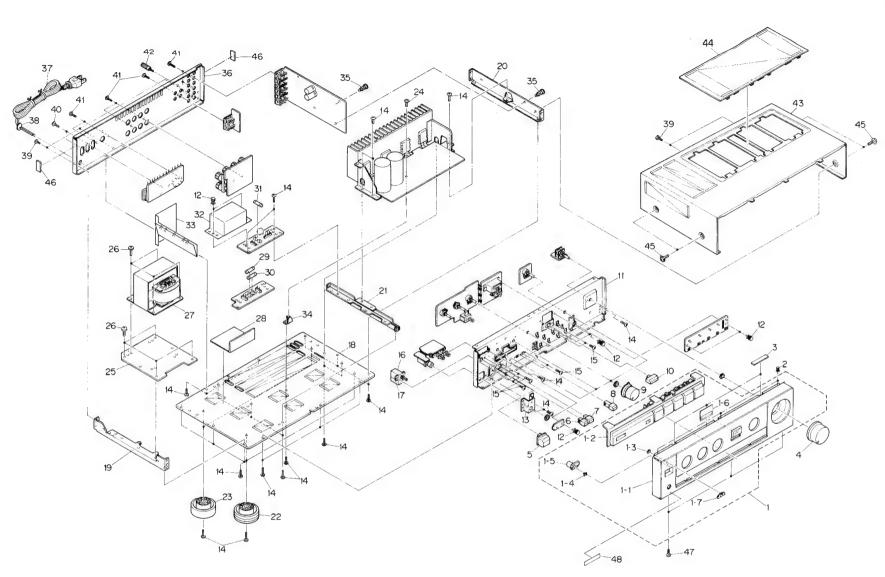


PARTS LIST

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■ ENE-055 ☐ Source Selector PC Board Ass'y	2-8
■ TPS-318 A Voltage Selector PC Board Ass'y	2-10
Accessories List	2-11
Packing Materials and Part Numbers	

Exploded View and Parts List



■ Parts List

A	Item	Part Number	Part Name	Q'ty	Description	Areas
	1 1-1 1-2 1-3 1-4	EFP-AX311BKE E26391-001 E26332-001 E60912-003 E73522-001	Front Panel Ass'y Front Panel Push Button Ass'y Speed Nut Indicator	1 1 1 1		
	1-5 1-6 1-7 2 3	E75286-001 E75327-001 E72968-001 E48729-009 EXO060007N40S	Holder Indicator Sheet JVC Mark Plastic Rivet Spacer	1 1 1 3 3 3		
	4 5 6 7 8	E305980-001 E75079-001 E75073-001 E75073-002 E75182-001	Volume Knob Power Button Push Button Push Button Push Button	1 1 1 1 1		
	9 10 11 12	E305981-001 E75117-001 E11953-001 E48729-008 E48729-008	Knob Push Button Front Bracket Plastic Rivet Plastic Rivet	4 1 1 5 7		U except U
<u>^</u>	13 14 15 16	E75183-001 SBSG3008CC SBST3006CC QSP1106-004 QSP1106-004BS	Head Phone Bracket Screw Screw Push Switch Push Switch	1 31 8 1	Power Power	except BS BS
	17 18 19 20 21	E71004-001 E26273-001 E305810-001 E305811-001 E305812-002	Switch Cover Bottom Cover Side Bracket Side Bracket Center Bracket	1 1 1 1 1	Left Right	BS
	22 23 24 25 26	E75088-001 E75088-002 GBSB3008CC E305803-002 E65389-004	Foot Ass'y Foot Ass'y Screw Trans Bracket Special Screw	2 2 1 1 8	Front Rear	
<u>^</u>	27 - 28	ETP1150-33EA ETP1150-33EABS ETP1150-33FA E303260-189 E75353-001	Power Transformer Power Transformer Power Transformer Rating Label Protect Cover	1 1 1 1 1		E, G, A, EF BS U E, G, EF except U
<u>^</u>	29 30 31 32	QMF51A2-2R5S QMF51A2-5R0S QMF51A2-2R5S QMF51E2-2R5SBS E306171-001	Fuse Fuse Fuse Fuse Protect Cover	1 1 1 1	F001 F002 F003 F003	U E, G, A, EF BS excep; U

≜:; **a**fety Parts

\triangle	Item	Part Number	Part Name	Qʻty	Description	Areas
	33	E305986-001	Protect Cover	1		
	34	E68587-008	Bracket	1		
	35	E303216-001	Fastener	2		
	36	E26334-001	Rear Panel	1		U
		E26334-002	Rear Panel	1		except U
\triangle	37	QMP2560-244	Power Cord	1		А
\triangle		QMP3900-200	Power Cord	1		E, G, EF
\triangle	:	QMP7600-200	Power Cord	1		U
\triangle		QMP9017-008BS	Power Cord	1		BS
\triangle	38	QHS3876-162	Cord Stopper	1		except BS
\triangle		QHS3876-162BS	Cord Stopper	1		BS
	39	SBSG3008M	Screw	5		
	40	SDSB3008M	Screw	2	AC Outlet	U
1 1	41	E73273-001	Special Screw	8		U
		E73273-001	Special Screw	6		except U
	42	E70078-001	GND Terminal	1		
	43	E26336-001	Metal Cover	1		G, A, U
		E26336-002	Metal Cover	1		E, EF, BS
	44	E24134-008	Grill	1		E, EF, BS
	45	E61660-004	Special Screw	4		
	46	EXO040010R10S10	Spacer	2		
	47	SBSG3006M	Screw	3		
	48	E49267-001	Olign Marking Label	1		BS

⚠: Safety Parts

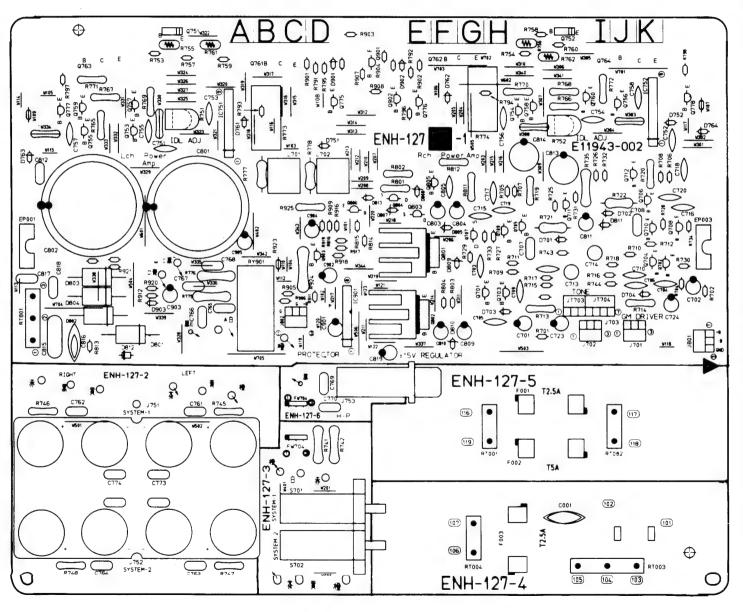
The Marks for Designated Areas

E, EF ······ Continental Europe	BS ····· the U.K.
G ····· West Germany	U Other Countries
Δ Δustralia	No mark indicates all areas

Printed Circuit Board Ass'y and **Parts** List

■ ENH-127 ☐ Main Amplifier PC Board Ass'y

Note: ENH-127 \square varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas	PC Board Ass'y	Designated Areas
ENH-127 A	Other Countries	ENH-127 C	West Germany
ENH-127 B	Continental Europe, Australia	ENH-127 D BS the U.K.	the U.K.

Transistors

	110	isistors			
Δ	1 T E M	PART NUMBER	DESCR	LPTION	AREA
				MAKER	
	Q701	2SC2240(A,B)	SILICON	TOSHIBA	
Į l	Q702	2SC2240(A,B)	SILICON	TOSHIBA	
	Q703	2SC2240(A,8)	SILICON	TOSHIBA	
	Q704	2SC224O(A,B)	SILICON	TOSHIBA	1
	Q705	2SA970(GR,BL)	SILICON	TOSHIBA	
	Q706	2SA970(GR,BL)	SILICON	TOSHIBA	
	Q707	2\$A970(GR,BL)	SILICON	TOSHIBA	
	Q708	2SA970(GR,BL)	SILICON	TOSHIBA	
	Q709	2SA933LN(R,S)	SILICON	ROHM	
	Q710	2SA933LN(R,S)	SILICON	ROHM	
	Q711	2SC2240(GR,BL)	SILICON	TOSHIBA	
	Q712	2SC2240(GR,BL)	SILICON	TOSHIBA	1
]	Q751	2SD636(Q,R)	SILICON	MATSUSHITA	
	Q752	2SD636(Q,R)	SILICON	MATSUSHITA	1
	Q753	2SC2240(GR)	SILICON	TOSHIBA	i
	Q754	2SC2240(GR)	SILICON	TOSHIBA	
	Q755	2SA970(GR)	SILICON	TOSHIBA	
	Q756	2SA970(GR)	SILICON	TOSHIBA	
	Q757	2SC2235(0,Y)	SILICON	TOSHIBA	
	Q758	2SC2235(0,Y)	SILICON	TOSHIBA	
	Q759	2SA965(0,Y)	SILICON	TOSHIBA	
1	9760	2SA965(0,Y)	SILICON	TOSHIBA	
	Q761	2SD2155LB(R,O)	SILICON	TOSHIBA	
	Q762	2SD2155LB(R,0)	SILICON	TOSHIBA	
	9763	2S81429LB(R,0)	SILICON	TOSHIBA	
		2SB1429LB(R,0)	SILICON	TOSHIBA	
ĺ	Q7.75	2SC1740S(R,S)	SILICON	ROHM	}
	Q776	2SC1740S(R,S)	SILICON	ROHM	
1	Q777	2SA933S(R,S)	SILICON	ROHM	
	Q778	2SA933S(R,S)	SILICON	ROHM	
	Q801	2SD2061(F,G)	SILICON	ROHM	
	0802	2SB1187(F,G)	SILICON	ROHM	
	Q803	2SK246(GR)	F.E.T		
	Q804	25K246(GR)	F.E.T		
	Q805	2SA933S(R,S)	SILICON	конм	
	Q806	2\$ C3068	SILICON	SANYO	
	0901		SILICON	ROHM	
	9902			ROHM	i
	Q903		SILICON		
				CARRTY BAL	T C

A : SAFETY PARTS

I.C.s

А ітем	PART NUMBER	DESCR	1 P T 1 O N	AREA
			MAKER	
10752	VC 5022(X,Y) VC 5022(X,Y) UP C1237HA	1.C. 1.C. 1.C.		

A : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCR	1 P T 1 O N	AREA
		TAKI KOMBUK	DI. S C K		MKEA
				MAKER	
	D701	18 8133	SILICON	ROHM	
1	D702	1\$ \$133	SILICON	ROHM	
	D703	15 5133	SILICON	ROHM	
	0704	18 8133	SILICON	ROHM	
	D751	1S S133	SILICON	ROHM	
	D752	1\$ \$133	SILICON	ROHM	
	D761	15 5133	SILICON	ROHM	
	D762		SILICON	ROHM	
1	D763	18 \$133	SILICON	ROHM	
	0764	18 8133	SILICON	ROHM	
	D801	30 DL2FC	SILICON	NIHONINTER	С
	D801	30 D2FC	SILICON	NIHONINTER	Α
	D801	30 D2FC	SILICON	NIHONINTER	В
1 1	D801	30 D2FC	SILICON	NIHONINTER	DBS
l	D802	30 DL2FC	SILICON	NIHONINTER	C
	D802	30 D2FC	SILICON	NIHONINTER	Α
	D802		SILICON	NIHONINTER	В
1	D802		SILICON	NIHONINTER	DBS
	0803	30 DL2FC	SILICON	NIHONINTER	С
l		30 D2FC	SILICON	NIHONINTER	A
	D803		SILICON	NIHONINTER	В
	D803	30 D2FC	SILICON	NIHONINTER	DBS
	D804	30 DL2FC	SILICON	NIHONINTER	С
	0804	30 D2FC	SILICON	NIHONINTER	A
	D804		SILICON	NIHONINTER	В
	D804		SILICON	NIHONINTER	DBS
	0805		ZENER	ROHM ·	
	D807	MTZ13JC	ZENER	ROHM	-
	8080		ZENER	ROHM	
	D809	MTZ18JC	ZENER	ROHM	

Diodes

∆ ITEM	PART NUMBER	DESCR	MAKER	AREA
D812 D813 D901	MTZ18JC ERA15-02L19 1SS133 1SS133	ZENER ZENER SILICON SILICON SILICON SILICON SILICON SILICON	ROHM ROHM ROHM ROHM ROHM ROHM	

▲ : SAFETY PARTS

Capacitors

	Â	ITEM	PART	N U	мві	R	D	Е	S	С	R	1	P	T	1	0	N	AREA
		C001	QCZ901				470							RA				В
-		C001	QCZ901 QCZ901				470			-				R A R A				C DBS
-		C701	EETB2A				10		1	-	100	v		EC				063
-		C702	EETB2A				101			- 1	100		1	EC				
		C703	QCS21H				100	PF		-	50 V		CE	RA	Μî	C		
-		C7C4	QCS21H				100			- 11	5 O V		1	RΑ				
		C705	QCS21H				100			- 1	50 V			RA				C
-		C706	QCS21H QFN81H				100 330			- 1	50 V 50 V		1	R A L A		Ç		С
1		C708					330				50 V			LA				
1		C709	QCS21H				10P				50 V			RA		С		
ı		C710					10P	F		9	50 V		CE	RΑ	ΜI	C		
١		C713	QEN51H				4.7			- 1	50 V			N				
		C714	QEN51H QCS21H				4.7 33P				50 V			N D A				
		C716	QCS21H				33P			- 11	50 V			RA RA				
1		C717	QCS21H				33P				50 V			RA				
1		C718	QCS21H				33P			- 1	50 V			RA				
1		C719	QCS21H				22P				0 V			RA				
1		C720	QCS21H				22P				50 V		_	RA				
		C723	QETB1C QETB1C				47M				16V			EC				
I		C751	QCF21H				47M 0.0		F		6 V 5 O V			E C R A				
		C752	QCF21H				0.0				50 V			RA				
1		C753	QCF21H	P-10	03		0.0				0 V		1	RA				
1	ļ	C754	QCF21H				0.0		F	- 1-	50 V		CE					
1		C755	QCS32H				68P			- 1	00			RA.				-
	1	C756	QCS32H QCS32H				68P 68P			- 1	600 600		CE					
ŀ		C758	QCS32H				68P				00			R A				
1		C761	QFN81H				0.0		ΜF	- 1	0 V		MY			C		С
1		C762	QFN81H	K-22	23		0.0	22	ΜF	5	0 V		МΥ	LA	R		-	С
1		C763	QFN81H				0.0			- 1	0 V		MΥ					С
1		C764	QFN81H				0.0		MF		OV		MY					C
1		C765	QFN81H QFN81H				0.1 0.1				ov ov		MY MY					B C
1		C765	QFN81H				0.1			- 1	ov		МΥ					DBS
1		C765	QFN81H				0.0	47	MF	- 11	οv		MΥ					A
].		C766	QFN81H				0.1	ΜF			OV		МΥ	LA	R			В
1		C766	QFN81H				0.1	ΜF			OV		MΥ					С
1	ı	C766					0.1		ме		ov ov		MY					DBS
1		C767,	QFN81H				0.0 0.1		M F	- 1	ov		M Y M Y				-	A B
1		C767	QFN81H				0.1			- 1	ov			LAI				c
ľ		C767	QFN81H				0.1			5	OV		МΥ					DBS
١	- 1	C768	QFN81H				0.1				OV		ΜY]	В
		C768	QFN81H QFN81H				0.1				OV		MY				1	C
	1	C769	QCF21H				0.1 220		F		0 V		MY			c		DBS C
1		C770	QCF21H				220				οv		CE					c
		C773	QFN81H			- 1	0.0			- 1	ov		МΥ			-		c
-		C774	QFN81H				0.0			- 1	οv		МΥ				- 1	С
		C801	QEZ007			1	870				6 V		EL					
1	\dashv	C802	QEZOO7				870 47M		r		6 V		EL				4	
1	1	C804	QETB1H		_		47M				50 V		EL	EC				
		C805	QCS21H				100			- 1-	SOV			RA				
1		C809					47M	F		2	25 V		E٤					
		C810	QETB1E				4 7 M				25 V		ΕL	ΕC	TR	0		
		C811	QETB1E				10M				25 V			EC		0		
		C812	QFN32A QETB1J				470 100		٢		00 3V		MY					С
1	l	C814	QETB1J				100			- 1	33V		EL	EC			1	
		C815	QFH42E				0.1				50		M.					
1		C816	QCE22H	P-10	3A		0.0	1 M			00		CE					
1		C817	QFN82AK-				470		F		00		MΥ				l	C
		C818	QFN82AK-		15		0.1 1MF	ΜF			00	V	MY				-	С
1		C901	QETB1H				1MF 220	MF			0 V		EL				-	
L	_	0,01	~ C . D I M	46				, , ,		11			<u></u>	- 4	+ K	<u></u>		

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▲ ITEM	PART NUMBER	DESC	R I	PTION	ΛRΕΑ
C903 C904	QETB1CM-226 QETB1HM-475 QETB1HM-226 QETB1HM-105	4.7MF 22MF	50V 50V	ELECTRO ELECTRO ELECTRO ELECTRO	

A : SAFETY PART

Resistors

	Res	istors				
Æ	ITEM	PART NUMBER	DESC	RI	PTION	AREA
	R701	QRD167J-222	2.2K	1/6W	CARBON	
	R702		2.2K	1/6W	CARBON	
	R703		100K	1/6W	CARBON	
	R704	QRD167J-104 QRD167J-202	100K 2K	1/6W	CARBON	
	R706		2 K	1/6W	CARBON	
	R707		2 K	1/6W	CARBON	
	R708		2 K	1/6W	CARBON	
	1 1	QRD167J-103	10K	1/6W	CARBON	
	R710	ART TARREST OF A STREET	10K	1/6W	CARBON	
	R711 R712	QRD167J-101 QRD167J-101	100	1/6W	CARBON	
Δ		QRD14CJ-102S	1K	1	UNF.CARBON	
$\overline{\mathbb{A}}$	R714	QRD14CJ-102S	1K		UNF. CARBON	
	R715	QRD167J-163	16K	1/6W	CARBON	
	R716	QRD167J-163	16K	1/6W	CARBON	
	R717	QRD167J-823	82K		CARBON	1
		QRD167J-823	82K		CARBON	
▲	R719	QRD14CJ-121S QRD14CJ-121S	120		UNF.CARBON UNF.CARBON	
Δ	R721	QRD125J-822	8.2K		UNF.CARBON	
Δ	R722	QRD125J-822	8.2K	l .	UNF. CARBON	
	R725		390		CARBON	
	R726	QRD167J-391	390		CARBON	
	R727	QRD167J-152	1.5K		CARBON	
		QRD167J-152	1.5K		CARBON	
	R729	QRD167J-333	53K	1	CARBON	
	R730		33K 390		CARBON CARBON	
	R731	QRD167J-391 QRD167J-391	390	1/6W	CARBON	
	R733	QRD167J-152	1.5K		CARBON	
	R734	QRD167J-152	1.5K		CARBON	
Δ	R735	QRG01CJ-392A	3.9K	1 W	O.M.FILM	A
Δ	R735	QRG01CJ-392A	3.9K	1 W	O.M.FILM	В
Δ	R735	QRGO1CJ-392A	3.9K	1 W	O.M.FILM	C
	R735	Q0G01CJ-392A	3.9K	1W	O.M.FILM	DBS
Δ	R741	QRG01CJ-331A	330	1 W	O.M.FILM	
⚠	R742	QRG01CJ-331A	330 100K		O.M.FILM CARBON	
	R744	QRD167J-104 QRD167J-104	100K		CARBON	
Δ	R745	QRZ0077-4R7	4.7		UNF CARBON	С
Δ	R746		4.7	1/4W	UNF CARBON	С
Δ	R747	QRZ0077-4R7	4.7		UNF.CARBON	
⚠	R748	QRZ0077-4R7	4.7		UNF.CARBON	C
	R751	QVPE601-501	500		VARIABLE	
	R752	QVPE601-501 QRD167J-101	500 100		VARIABLE CARBON	i
	R754	QRD167J-101	100		CARBON	
	R755	ERT-D2WFL351S	350		THERMISTOR	
	R756	ERT-D2WFL351S	350		THERMISTOR	
	R757	QRD167J-471	470		CARBON	
	R758	QRD167J-471	470	1	CARBON	
	R759	QRD167J-391	390		CARBON	
	R760	QRD167J-391	390		CARBON	
	R761	ERT-D2WHL202S	2K		THERMISTOR THERMISTOR	
Δ	R765	ERT-D2WHL202S QRZ0077-272	2K 2.7K		FUSIBLE	
杰	R766		2.7K		FUSIBLE	
À	R767	QRZ0077-471	470		FUSIBLE	
<u>A</u>	R768	QRZ0077-471	470		FUSIBLE	i
ش	R769	QRZ0077-100	10	1/4W	FUSIBLE	
4	R770	QRZ0077-100	10		FUSIBLE	
۸	R771	QRZ0077-100	10		FUSIBLE	
Â	R772	QRZ0077-100 ERF032K-R22	10 0.22		FUSIBLE (EMENT	
点.	R774	ERF032K-R22	0.22	3 W	CEMENT	
办	R775	QRG01CJ-100A			O.M.FILM	
À	R776	QRG01CJ-100A			O.M.FILM	
di	R777	QRD125J-101	100	1/2W	UNF.CARBON	
۵	R777	QRD125J-330	33		UNF.CARBON	
Δ	R777	QRD125J-330	33		UNF.CARBON	
Ā	R777				UNF.CARBON	
ش	R778	QRD125J-101	100		UNF.CARBON	C
Δ Δ	R778	QRD125J-330 QRD125J-330	33 33		UNF.CARBON UNF.CARBON	В
<u>A</u>	R778	QRD125J-330	33		UNF.CARBON	DBS
444	R791		620		CARBON	
	R792		620		CARBON	
	R793		620		CARBON	
	R794	QRD167J-621	620	1/6W	CARBON	

Resistors

	1103	131013										
Â	LTEM	PART NU	JMBER	ÐЕ	s c	R	I	P	Т	0	N	AREA
	R795	QRD167J-	181	180		1/6	s W	C A	RB	ON		
	R796	QRD167J-	181	180		1/6	S W	C A	RBI	NC		
	R797	QRD167J-	181	180		1/6	S W	C A	RB	NC		
	R798	QRD167J-	181	180		1/6		C A	RB	NC		
A	R801	QRZ0077-		33		1/4				BLE		
Δ.	R802	QRZ0077-		33		1/4		FL	SI	BLE		
	R803	QRD167J-	223	22K		1/6	S W	CA	RBI	ON		
	R804	QRD167J-	203	20K		1/6	5 W	CA	RB	DИ		1
⚠	R811	QRZ0077-	330	33		1/4	W	F٤	ISI	BLE		
Δ	R812	QRZ0077-	330	33		1/4	W	Fι	SI	BLE		
	R813	QRD167J-	123	12K		1/6	5₩	C.F	RB	DN		
	R814	QRD167J-	563	56K		1/6	s W	C.A	RB	DΝ		
	R815	QRD167J-	221	550		1/6	5 W	C A	RB	ON		
	R816	QRD167J-	393	39K		1/6	5₩	CF	RB	OΝ		1
	R901	QRD167J-	272	2.7K		1/6	5 W	C #	RB	ON		
	R902	QRD167J-	272	2.7K		1/6	5 W	CF	RB	DN		
	R903	QRD167J-	153	15K		1/6	5 W	CA	RB	ON		
	R904	QRD167J-	153	15K		1/0	5 W	CA	RB	ON		
	R905	QRD167J-	104	100K		1/6	5 W	CA	RB	ON		1
1	R906	QRD167J-	823	82K		1/0	5 W	IC #	RB	ON		1
	R907	QRD167J-	223	22K		1/	5 W	24	RB	ON		
	R908	QRD167J-	223	22K		1/6	5 W	,01	RB	ON		
	R909	QRD167J-	103	10K		1/	5 W	CA	ARB	0 N		
	R911	QRD167J-	473	47K		1/	6 W	C#	ARB:	ON		1
	R912	QRD167J-	562	5.6K		1/	5 W	C.	ARB	ON		
	R916	QRD167J-	103	10K		1/	6 W	C	ARB	ON		
	R917	QRD167J-	103	10K		1/	6 W	CI	ARB	ON		1
	R918	QRD167J-	274	270K		1/	6 W	CI	ARB.	ON		
	R919	QRD167J-	332	3.3K		1/	6 W	CI	ARB	ON		
	R920	QRD167J-	393	39K		1/	6 W	CA	ARB	ON		
	R921	QRD167J-	153	15K		1/	5 W	CI	ARB	ON		I
	R923	QRD167J-	220	22		1/	6 W	C	ARB	ON		1
Δ	R924		122A	1.2K		2 W		0.	. H .	FIL	М	
Δ	R925	QRZ0077-	100	10		1/	4 W	Fl)SI	BLE		
						<u> </u>	S	A F	ET	Y	PA	RTS

Others

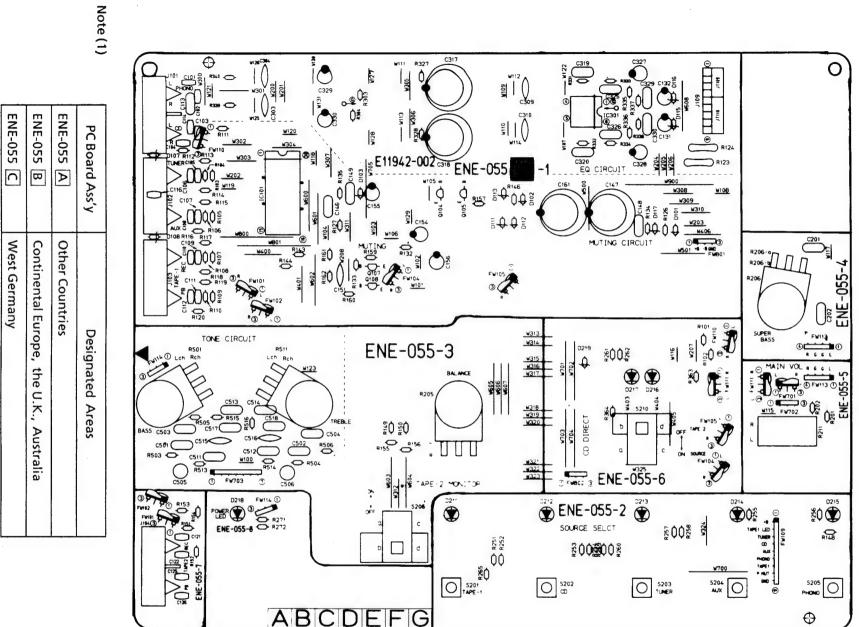
↑ ITEM PART NUMBER DESCRIPTION / EMG7331-002U FUSE CLIP EMG7331-002 FUSE CLIP E11943-002 CIRCUIT BOARD E11943-002 CIRCUIT BOARD E11943-002 CIRCUIT BOARD E11943-002BS CIRCUIT BOARD E300209-029 HEAT SINK E305804-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB E65508-002 TAB E65508-002 TAB	
EMG7331-002 FUSE CLIP E11943-002 CIRCUIT BOARD E11943-002 CIRCUIT BOARD E11943-002 CIRCUIT BOARD E11943-002BS CIRCUIT BOARD E300209-029 HEAT SINK E305804-001 INSTRUCTION BOOK E305805-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB	AREA
E11943-002 CIRCUIT BOARD E11943-002 CIRCUIT BOARD E11943-002 CIRCUIT BOARD E11943-002BS CIRCUIT BOARD E30209-029 HEAT SINK E305804-001 INSTRUCTION BOOK E305805-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB E65508-002 TAB	
E11943-002 CIRCUIT BOARD E11943-002 CIRCUIT BOARD E11943-002BS CIRCUIT BOARD E300209-029 HEAT SINK E305804-001 INSTRUCTION BOOK E305805-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB E65508-002 TAB	
E11943-002 CIRCUIT BOARD E11943-002BS CIRCUIT BOARD E300209-029 HEAT SINK E305804-001 INSTRUCTION BOOK E305805-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB	Α
E11943-002BS CIRCUIT BOARD E300209-029 HEAT SINK E305804-001 INSTRUCTION BOOK E305805-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB E65508-002 TAB	В
E11943-002BS CIRCUIT BOARD E300209-029 HEAT SINK E305804-001 INSTRUCTION BOOK E305805-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB E65508-002 TAB	C
E305804-001 INSTRUCTION BOOK E305805-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB E65508-002 TAB	DBS
E305805-001 INSTRUCTION BOOK E33754-001 TIE BAND E65508-002 TAB E65508-002 TAB	
E33754-001 TIE BAND E65508-002 TAB E65508-002 TAB	
E65508-002 TAB E65508-002 TAB	
E65508-002 TAB	
1	В
F65508-002 TAB	C
	DBS
E70945-H25 HEAT SINK	
E73525-003 SCREW	
GBSB3008CC SCREW	
SBSB3008CC SCREW	
SBSB3008CC SCREW	
J701 EMV7122-003 CONNECTOR	
J702 EMV7122-003 CONNECTOR	
J751 EMBOOTP-801C SPEAKER TERMINAL	
J752 EMBOOTP-801C SPEAKER TERMINAL	
J753 QMS6A40-021 HEADPHONE JACK	
J801 EMV7122-003 CONNECTOR	
J802 EMV7122-003 CONNECTOR	
L701 EQLOOD1-1RO INDUCTOR	
L702 EQLO001-1RO INDUCTOR	
S701 QST4231-E04 PUSH SWITCH	
S702 QST4231-E04 PUSH SWITCH	
EP001 E70859-001 EARTH PLATE	C
EP003 E70859-001 EARTH PLATE	
FW704 EWR33B-08SST FLAT WIRE	
JT703 EMV7122-003 CONNECTOR	
JT704 EMV7122-004 CONNECTOR	
RT001 E67764-202 WRAPPING TERMINA	Α
RT002 E67764-202 WRAPPING TERMINA	A
RT003 E67764-203 WRAPPING TERMINAL	В
RT003 E67764-203 WRAPPING TERMINAL	С
RT003 E67764-203 WRAPPING TERMINAL	DBS
RTOO4 E67764-202 WRAPPING TERMINA	В
RT004 E67764-202 WRAPPING TERMINA	С
RT004 E67764-202 WRAPPING TERMINA	DBS
RT801 E67764-103 WRAPPING TERMINA	
RY901 ESK5D24-218 RELAY	
A: SAFE Y PAR	

A : SAFE Y PART

ENE-055 Source Selector PC Board Ass'y

Note: ENE-055

□ varies According to the areas employed. See note (1) when placing an order.



Transistors

△ ITEM	PART NUMBER	DESCR		AREΛ
Q105 Q107	DTA144ES 2SC3068	SILICON SILICON SILICON SILICON	MAKER ROHM ROHM SANYO SANYO	

A : SAFETY PARTS

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⚠ I TEM	PART NUMBER	DESCR	I P T I O N M A K E R	AREA
	LC7818 NJM4558D-D	I.C. I.C.	SANYO	

A : SAFETY PARTS

Diodes

\triangle	ITEM	PART NUMBER	DESCR	IPTION	AREA
				MAKER	
	0101	188133	SILICON	понм	
	D102	188133	SILICON	ROHM	
	D103	188133	SILICON	ROHM	
	D107	MTZ3.3JB	ZENER	ROHM	
l	D108	MTZ3.3JB	ZENER	ROHM	
	D111	188133	SILICON	ROHM	
	0112	188133	SILICON	ROHM	
	0113	MTZ5.6JC	ZENER	ROHM	
	0115	MTZ13JC	ZENER	ROHM	
	D116	MTZ13JC	ZENER	ROHM	
	D117	MTZ6.8JC	ZENER	ROHM	
	0211	SLR-331VR50F070	L.E.D.	ROHM	
	D212	SLR-331DU50F070	L.E.D.	ROHM	1
1 1	D213	SLR-3310U50F070	L.E.D.	ROHM :	1
l	D214	SLR-331DU50F070	L.E.D.	ROHM	
	D215	SLR-331DU50F070	L.E.D.	ROHM	
	D216	SLR-34YC50F165	L.E.D.	ROHM	1
	D217	SLR-34YC50F165	L.E.D.	ROHM	
	D218	SLR-331DU70F070	L.E.D.	ROHM	
	D219	MTZ5.1JC	ZENER	ROHM	1

A : SAFETY PARTS

Capacitors

		Dacitors				
Δ	ITEM	PART NUMBER	DES	CRI	PTION	AREA
	C101	QCBB1HK-221	220PF	50V	CERAMIC	
	C102		220PF	50V	CERAMIC	1
	C103		470PF	SOV	CERAMIC	-
	C104		470PF	50V	CERAMIC	C
	C105		220PF	SOV	CERAMIC	c
	C106		220PF	SOV	CERAMIC	C
	C107		220PF	sov	CERAMIC	c
	C108		220PF	SOV	CERAMIC	c
	C109		220PF	SOV	CERAMIC	c
		QCBB1HK-221	220PF	50V	CERAMIC	
	C111		220PF	50V	CERAMIC	C
	C112		220PF	50V	CERAMIC	c
1 1		QFN81HJ-103	0.01MF	50V	MYLAR	
	C114		0.022MF	25V	CERAMIC	
	C121		220PF	50V	CERAMIC	c
	C122		220PF	50V	CERAMIC	c
	C125		220PF	50V	CERAMIC	c l
	C126		220PF	50V	CERAMIC	c
	C131	QETB1EM-107	100MF	25V	ELECTRO	
	C132	QETB1EM-107	100MF	25V	ELECTRO	
	C146	QFN81HJ-562	5600PF		MYLAR	
	C147	QETBOJM-228	2200MF	6.3V	ELECTRO	
	C148	QFN81HJ-562	5600PF	SOV	MYLAR	i 1
!	C149	QFN81HK-473	0.047MF	SOV	MYLAR	
	C154	QETB1CM-107	100MF	16V	ELECTRO	
	C155	QETB1HM-474	0.47MF	50V	ELECTRO	
	C156	QETB1HM-475	4.7MF	50V	ELECTRO	
	C201	QFV81HJ-104	0.1MF	SOV	T.FILM	l i
	C202	QFV81HJ-104	0.1MF	sov	T.FILM	
	C303		330PF	50V	CERAMIC	c
	C303	QCS21HJ-560	56PF	50V	CERAMIC	Α
	C303	QCS21HJ-560	56PF	sov	CERAMIC	В
	C304	QCS21HJ-331	330PF		CERAMIC	c
	C304		56PF	50V	CERAMIC	A
	C304	QCS21HJ-560	56PF	sov	CERAMIC	В

Capacitors

		Jacitor 3	1			
Δ	LTEM	PART NUMBER	DESC	RI	PTION	ARE
		QCS21HJ-101	100PF	50V	CERAMIC	
	C310		100PF	50V	CERAMIC	l
1	C317		100MF	10V	ELECTRO	
		QETB1AM-107	100MF	10V	ELECTRO	
	C319	****************************	1800PF	50V	MYLAR	
	C320	QFN81HJ-182	1800PF	50V	MYLAR	
	C325	QFN81HJ-682	6800PF	sov	MYLAR	1
	C326		6800PF	sov	MYLAR	
	C327		10MF	100V	ELECTRO	ĺ
	C328		10MF	100V	ELECTRO	
		QFN81HJ-222	2200PF	50V	MYLAR	С
	C330		2200PF	50V	MYLAR	С
1 1	C331		10MF	100V	ELECTRO	
1 1	C332		10MF	100V	ELECTRO	
l1	C501	QFN81HK-153	0.015MF	50V	MYLAR	
	C502		0.015MF	50V	MYLAR	
	C503		0.082MF	50V	MYLAR	l
	C504		0.082MF	sov	MYLAR	
	C505		4.7MF	50V	NON POLE	
	C506		4.7MF	50V	NON POLE	
	C511		3300PF	50V	MYLAR	
	C512		3300PF	50V	MYLAR	
1 1	C513		0.018MF	50V	MYLAR .	
1	C514		0.018MF	50V	MYLAR	
	C515		220PF	50V	CERAMIC	
	C516		220PF	50V	CERAMIC	
	C517		1200PF	50V	MYLAR	
	C518	QFN81HK-122	1200PF	50V	MYLAR	
					1	
					LEDEN BAR	

R101 QR0167J-105 1M 1/6W CARBON R102 QR0167J-105 1M 1/6W CARBON R103 QR0167J-105 1M 1/6W CARBON R104 QR0167J-105 1M 1/6W CARBON R105 QR0167J-105 1M 1/6W CARBON R106 QR0167J-105 1M 1/6W CARBON R106 QR0167J-105 1M 1/6W CARBON R107 QR0167J-105 1M 1/6W CARBON R107 QR0167J-105 1M 1/6W CARBON R109 QR0167J-105 1M 1/6W CARBON R110 QR0167J-105 1M 1/6W CARBON R111 QR0167J-471 470 1/6W CARBON R111 QR0167J-471 470 1/6W CARBON R112 QR0167J-471 470 1/6W CARBON R113 QR0167J-471 470 1/6W CARBON R115 QR0167J-471 470 1/6W CARBON R116 QR0167J-471 470 1/6W CARBON R117 QR0167J-471 470 1/6W CARBON R118 QR0167J-471 470 1/6W CARBON R119 QR0167J-471 470 1/6W CARBON R120 QR0167J-471 470 1/6W CARBON R124 QR0167J-471 470 1/6W CARBON R125 QR0167J-101 100 1/4W FUSI BLE R124 QR0167J-103 106 1/6W CARBON R134 QR0167J-102 16 1/6W CARBON CARBON R144 QR0167J-102 16 1/6W CARBON CARBON R144 QR0167J-102 16 1/6W CARBON CARB	S
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R120 QRD167J-471 470 1/6W CARBON A R123 QRZ0077-101 100 1/4W FUSI BLE R124 QRZ0077-101 100 1/4W FUSI BLE R126 QRD167J-104 100K 1/6W CARBON R127 QRD167J-103 10K 1/6W CARBON R132 QRD167J-103 10K 1/6W CARBON R134 QRD167J-103 10K 1/6W CARBON R135 QRD167J-103 10K 1/6W CARBON R134 QRD167J-103 10K 1/6W CARBON R134 QRD167J-102 1K 1/6W CARBON R143 QRD167J-102 1K 1/6W CARBON R144 QRD167J-102 1K 1/6W CARBON R144 QRD167J-122 1.2K 1/6W CARBON R149 QRD167J-471 470 1/6W CARBON	
A R123 QRZ0077-101 100 1/4W FUSI BLE R124 QRZ0077-101 100 1/4W FUSI BLE R126 QRD167J-104 100K 1/6W CARBON R127 QRD167J-103 10K 1/6W CARBON R132 QRD167J-103 10K 1/6W CARBON R135 QRD167J-103 10K 1/6W CARBON R135 QRD167J-474 470K 1/6W CARBON R143 QRD167J-102 1K 1/6W CARBON R144 QRD167J-102 1K 1/6W CARBON R144 QRD167J-102 1K 1/6W CARBON R144 QRD167J-122 1.2K 1/6W CARBON R149 QRD167J-471 470 1/6W CARBON	
## R124 GRZ0077-101	
R126 QRD167J-104 100K 1/6W CARB ON R127 QRD167J-104 100K 1/6W CARB ON R132 QRD167J-103 10K 1/6W CARB ON R134 QRD167J-103 10K 1/6W CARB ON R135 QRD167J-474 470K 1/6W CARB ON R143 QRD167J-102 1K 1/6W CARB ON R144 QRD167J-102 1K 1/6W CARB ON R144 QRD167J-102 1K 1/6W CARB ON R144 QRD167J-102 1 1 1/6W CARB ON R144 QRD167J-122 1.2K 1/6W CARB ON R149 QRD167J-471 470 1/6W CARB ON	
R127 QRD167J-104 100K 1/6W CARB ON R132 QRD167J-103 10K 1/6W CARB ON R134 QRD167J-103 10K 1/6W CARB ON R135 QRD167J-474 470K 1/6W CARB ON R143 QRD167J-102 1K 1/6W CARB ON R144 QRD167J-102 1K 1/6W CARB ON R144 QRD167J-122 1.2K 1/6W CARB ON R149 QRD167J-471 470 1/6W CARB ON CARB ON	
R132 QRD167J-103 10K 1/6W CARB ON R134 QRD167J-103 10K 1/6W CARB ON R135 QRD167J-474 470K 1/6W CARB ON R143 QRD167J-102 1K 1/6W CARB ON R144 QRD167J-102 1K 1/6W CARB ON R146 QRD167J-122 1.2K 1/6W CARB ON R149 QRD167J-471 470 1/6W CARB ON	
R134 QRD167J-103 10K 1/6W CARB ON R135 QRD167J-474 470K 1/6W CARB ON R143 QRD167J-102 1K 1/6W CARB ON R144 QRD167J-102 1K 1/6W CARB ON R146 QRD167J-122 1.2K 1/6W CARB ON R149 QRD167J-471 470 1/6W CARB ON	
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R144 QRD167J-102 1K 1/6W CARB ON R146 QRD167J-122 1.2K 1/6W CARB ON R149 QRD167J-471 470 1/6W CARB ON	
R146 QRD167J-122 1.2K 1/6W CARB ON R149 QRD167J-471 470 1/6W CARB ON	
R149 QRD167J-471 470 1/6W CARB ON	
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R153 QRD167J-471 470 1/6W CARBON R154 QRD167J-471 470 1/6W CARBON	
R155 QRD167J-105 1M 1/6W CARBON	
R156 QRD167J-105 1M 1/6W CARBON	
R157 QRD167J-102 1K 1/6W CARBON	
R159 QRD167J-333 33K 1/6W CARBON	
R160 QRD167J-333 33K 1/6W CARBON	
R161 QRD167J-105 1M 1/6W CARBON	
R162 QRD167J-105 1M 1/6W CARBON	
R201 QRD167J-103 10K 1/6W CARBON	
R202 QRD167J-103 10K 1/6W CARBON R205 QVDB87M-EF5B 250K VAR(ABLE	
1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R211 QVD8A7B-AF5VA 250K VARI ABLE VARI ABLE	
R251 QRD167J-122 1.2K 1/6W CARBON	
R252 QRD167J-122 1.2K 1/6W CARBON	
R253 QRD167J-122 1.2K 1/6W CARBON	
R254 QRD167J-122 1.2K 1/6W CARBON	
R255 QRD167J-122 1.2K 1/6W CARBON	
R256 QRD167J-122 1.2K 1/6W CARBON	
R257 QRD167J-122 1.2K 1/6W CARSON	
A : SAFETY PARTS	5

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Δ	ITEM	PART NUMBER	DES	C R I	P T 1 O N	AREA
	R258	QRD167J-122	1.2K	1/6W	CARBON	
1	R259	QRD167J-122	1.2K	1/6W	CARBON	l
	R260	QRD167J-122	1.2K	1/6W	CARBON	
1	R261	QRD167J-122	1.2K	1/6W	CARBON	
	R262	QRD167J-112	1.1K	1/6W	CARBON	
	R265	QRD167J-104	100K	1/6W	CARBON	
	R271	QRD167J-132	1.3K	1/6W	CARBON	
	R272	QRD167J-152	1.5K	1/6W	CARBON	
1	R303	QRD167J~473	47K	1/6W	CARBON	
1	R304	QRD167J-473	47K	1/6W	CARBON	
1	R327	QRD167J-561	560	1/6W	CARBON	
1	R328	QRD167J-561	560	1/6W	CARBON	
1	R331	QRD167J-393	39K	1/6W	CARBON	
	R332	QRD167J-393	39K	1/6W	CARBON	
	R333	QRD167J-474	470K	1/6W	CARBON	
	R334	QRD167J-474	470K	1/6W	CARBON	
	R335	QRD167J-471	470	1/6W	CARBON	
1	R336	QRD167J-471	470	1/6W	CARBON	
	R337	QRD167J-104	100K	1/6W	CARBON	
	R338	QRD167J-104	100K	1/6W	CARBON	
	R339	QRD167J-222	2.2K	1/6W	CARBON	
1	R340	QRD167J-222	2.2K	1/6W	CARBON	
}	R363	QRD167J-471	470	1/6W	CARBON	
	R364	QRD167J-471	470	1/6W	CARBON	
	R501	QVDB87C-E15B	100K		VARIABLE	
	R503	QRD167J-203	20K	1/6W	CARBON	
1	R504	QRD167J-203	20K	1/6W	CARBON	
1	R505	QRD167J-362	3.6K	1/6W	CARBON	
	R506	QRD167J-362	3.6K	1/6W	CARBON	
l	R511	QVDB87C-E15B	100K		VARIABLE	
	R513	QRD167J-472	4.7K	1/6W	CARBON	
	R514	QRD167J-472	4.7K	1/6W	CARBON	
1	R515	QRD167J-821	820	1/6W	CARBON	
	R516	QRD167J-821	820	1/6W	CARBON	
				A : S	AFETY PAR	RTS

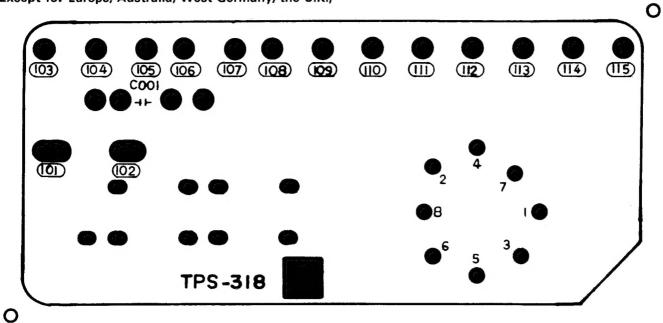
Others

			T	
Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
		E11942-002	CIRCUIT BOARD	
	1 1	E305983-001	HOLDER	
	J101	EMNOOTV-405A	4P PIN JACK	
	J102	EMNOOTV-402A	4P PIN JACK	
	J103	EMNOOTV-402A	4P PIN JACK	
	J104	EMNOOTV-402A	4P PIN JACK	
	\$201	ESP0001-018	TACT SWITCH	
	\$202	ESP0001-018	TACT SWITCH	
	S203	ESP0001-018	TACT SWITCH	
	S204	ESP0001-018	TACT SWITCH	
	\$205	ESP0001-018	TACT SWITCH	
	\$206	QSTL101-E03	PUSH SWITCH	
	S210	QSTL101-E04	PUSH SWITCH	
	FW101	EWR23C-20NN	FLAT WIRE	
		EWR23C-20NN	FLAT WIRE	
	FW104	EWR23C-30NN	FLAT WIRE	
		EWR23C-25NN	FLAT WIRE	
	FW109	EWR39B-20KST	FLAT WIRE	ĺ
		EWR23C-35NN	FLAT WIRE	
		EWR23C-16NN	FLAT WIRE	
		EWR34B-20SST	FLAT WIRE	
		EWR33B-13SST	FLAT WIRE	- 1
		EWR23C-10JN	FLAT WIRE	
		EWR33B-13KST	FLAT WIRE	- 1
		EWR37B-35KST	FLAT WIRE	
		EWR33B-10KST	FLAT WIRE	
		EWR33B-13KST	FLAT WIRE	1
		EMV7122-004	CONNECTOR	1
	JT110	EMV7122-005	CONNECTOR	ŀ
			A · SAFETY PAR	7 0

A : SAFETY PARTS

■ TPS-318 A Voltage Selector PC Board Ass'y

(Except for Europe, Australia, West Germany, the U.K.)



Capacitors

\triangle	ітем	PART NUMBER	DESC	R 1	PTIO	AREA
	C001	QC Z9018-103	0.01MF		CERAMIC	
<u></u>			<u> </u>	<u>.</u> : S	AFETY P	ARTS

Others

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		E 6 7 E 6 7 E 6 7	764 764	3 - (- : - :	30	2				CIR TAE WRA WRA	PF	110	NG NG NG	T E	RI	4I	NAI	_				
Δ Δ			063		_		U			A C VOL			-		. E (CTO	OR					

A : SAFETY PARTS

Accessories List

A	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1517A E30580-1517ABS BT20029C BT20060	Instruction Book Instruction Book Warranty Card Warranty Card	1 1 1	for Australia	except BS BS A BS
	BT-20064A	Warranty Card	1		G
\triangle	BT20066A BT20098 QZL1008-001 E43486-340A E04056	EEC Agency Audio Warranty Card FTZ Information Sheet Safety Sheet Siemens Plug	1 1 1 1	for New Zealand	G, BS A G BS U
	E41202-2 E41202-2B	Envelope Envelope	1		except BS BS

 \triangle : Safety Parts

The Marks for Designated Areas

E, EF ······ Continental Europe	BS ····· the U.K.
G ····· West Germany	U ······ Other Countries
A ······ Australia	No mark indicates all areas.

Packing Materials and Part Numbers

